Siarkopol Tarnobrzeg Group – Chemical Plants

Agricultural Fertilisers

Product Catalogue



SIARKOPOL

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Fertilisers for every crop!



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BIG BAG **500 kg**

Bag **50 kg**

Superfosfat Prosty Granulowany

P (CaS) 19.5 (30-32)

PFC 1(C)(I)(a)(i):
Single solid inorganic macronutrient fertiliser

Declared macronutrient:

Total phosphorus pentoxide (P_2O_5), % (m/m)	**19.5**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	17.0
Phosphorus pentoxide (P_2O_5) soluble in neutral ammonium citrate solution, % (m/m)	19.0
Total calcium oxide (CaO), % (m/m)	**30.0**
Total sulphur trioxide (SO_3), % (m/m)	**32.0**

Granulometry:
Granules. Sieved through a 5 mm mesh sieve: at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve: not more than 10% (m/m).

Components:
Powder simple superphosphate[1] (CAS no. 8011-76-5)
Where[1] CMC 1: Primary raw substances and mixtures.

Purpose

SUPERFOSFAT PROSTY GRANULOWANY is a traditional phosphate mineral fertiliser. It is suitable for use on all field crops and all soil types. It gives good results in fertilising meadows and pastures as well as permanent plantations. This is a pre-sowing fertiliser.
It is recommended to mix it with the soil to a depth of 15-20 cm. On grassland and permanent plantations, it remains on the surface without being covered with soil, and its components are gradually moved deeper by rainwater.



Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the phosphorus content in the soil
Spring cereals	210 – 350
Autumn-sown cereals	250 – 390
Rapeseed	300 – 400
Beets	350 – 450
Potatoes	180 – 300
Corn	300 – 450
Legumes	200 – 300
Small-seeded legumes	200 – 350
Grassland	200 – 300

The product doses given are recommendations. We recommend that farmers exchange information with their advisors in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Detailed information on the product and hazards is contained in the safety data sheet.



BIG BAG **500 kg**



Superfosfat Pro

P (CaS) 27 (35-15)

PFC 1(C)(I)(a)(i):
Compound solid inorganic macronutrient fertiliser

Declared macronutrients:

Total phosphorus pentoxide (P_2O_5), % (m/m)	**27.0**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	12.0
Total calcium oxide (CaO), % (m/m)	**35.0**
Calcium oxide (CaO) soluble in water, % (m/m)	13.0
Total sulphur trioxide (SO_3), % (m/m)	**15.0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	14.0

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Under- acidified superphosphate [1], triple superphosphate[1] (CAS no. 7758-79-4)
Where[1] CMC 1: Primary raw substances and mixtures.

Purpose

SUPERFOSFAT PRO is a phosphorus mineral fertiliser. It is suitable for use on all field crops and all types of soil. It gives good results when used to fertilise meadows and pastures as well as permanent plantations. It is a pre-sowing fertiliser. It is recommended to mix it with the soil to a depth of 15-20 cm. On grassland and permanent plantations, it remains on the surface without being covered with soil, and its components are gradually moved deeper by rainwater.

Dawki Nawozu

Zalecane dawki nawozu w kg/ha

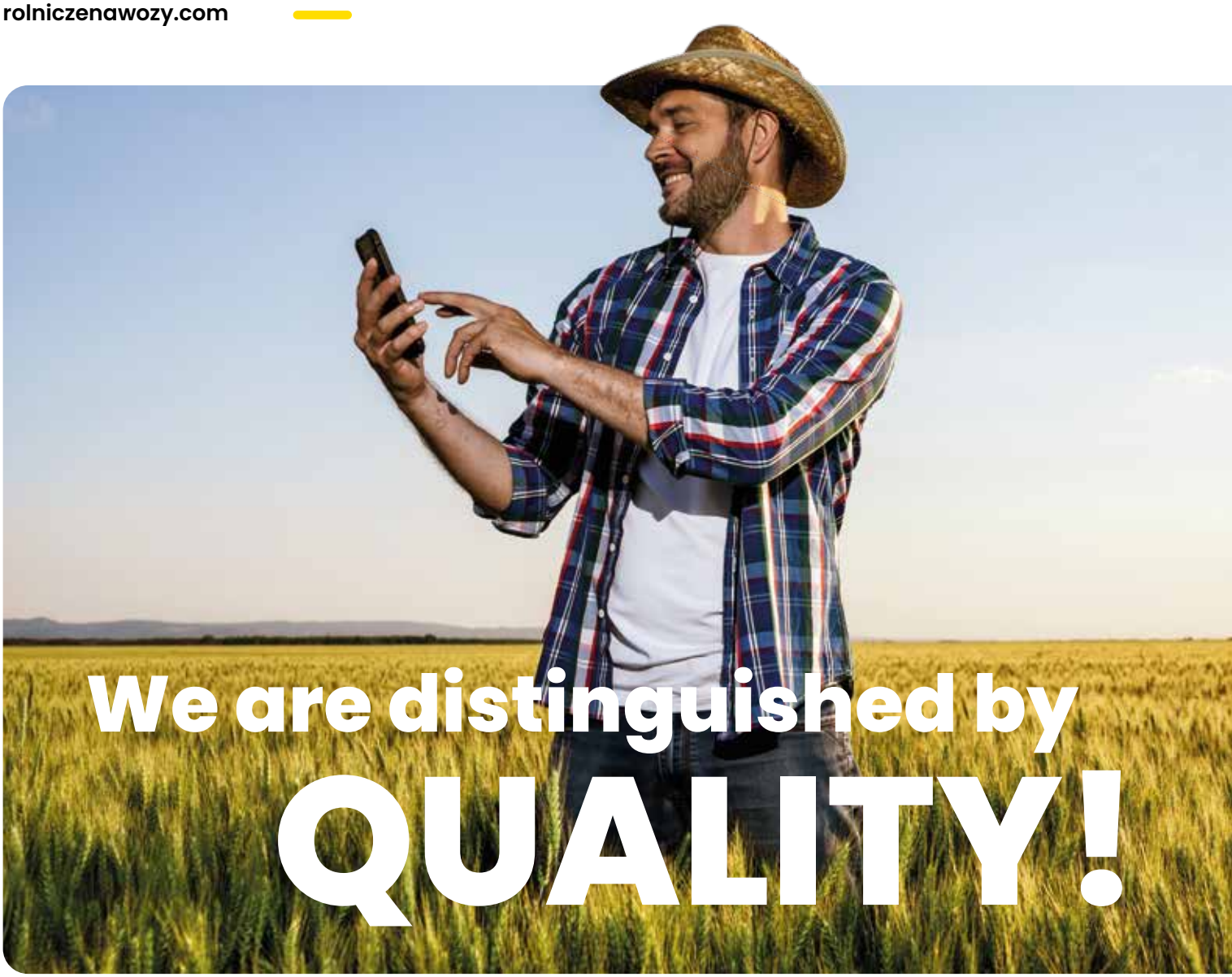
Cultivated plants	**Dosage** depending on the phosphorus content in the soil
Spring cereals	210 – 350
Autumn-sown cereals	250 – 390
Rapeseed	300 – 400
Beets	350 – 450
Potatoes	180 – 300
Corn	300 – 450
Legumes	200 – 300
Small-seeded legumes	200 – 350
Grassland	200 – 300

For vegetables, apply the entire dose in spring. For lawns, conifers, fruit trees and shrubs, apply the fertiliser in autumn or early spring before the growing season begins. When sowing, **SUPERFOSFAT PRO** can be used in combination with nitrogen fertilisers, potassium salt and potassium sulphate.

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.







Compound fertilises

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Compound fertilisers

BIG BAG **500 kg**

Bag **50 kg**

Potafoska 12



NPK (CaS) 4-13-12 (19-29)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total nitrogen (N), % (m/m)	**4.0**
Total phosphorus pentoxide (P_2O_5), % (m/m)	**13.0**
Phosphorus pentoxide (P_2O_5) soluble in water , % (m/m)	11.0
Potassium oxide (K_2O) soluble in water, % (m/m)	**12.0**
Total calcium oxide (CaO), % (m/m)	**19.0**
Calcium oxide (CaO) soluble in water, % (m/m)	16.0
Total sulphur trioxide (SO_3), % (m/m)	**29,0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	28.0

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Powder simple superphosphate[1] (CAS no. 8011-76-5),potassium chloride[1] (CAS no. 7447-40-7), ammonium sulphate[2] (CAS no. 7783-20-2)
Where[1] CMC 1: Primary raw materials and mixtures,
[2] CMC 11: By-products.

Purpose

POTAFOSKA 12 is a multi-component mineral fertiliser containing nutrients in a form easily absorbed by plants. This fertiliser is primarily intended for fertilising autumn-sown cereals and autumn-sown rapeseed. It can also be effectively used for all spring crops and grassland, supplementing nitrogen according to the needs of the cultivated plant species. The fertiliser contains sulphur, which is essential for protein synthesis.

Application Rules

This is a pre-sowing fertiliser, it is necessary to mix it with the soil to a depth of 10–15 cm. On grassland, the fertiliser should be applied in early spring according to the phosphorus dose intended for the entire growing season.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the P and K content in the soil
Autumn-sown cereals	350 – 550
Spring cereals	250 – 500
Rapeseed	300 – 550
Sugar beets	350 – 600
Small-seeded legumes	300 – 550
Grassland	350 – 650

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Detailed information on the product and hazards is contained in the safety data sheet.



BIG BAG **500 kg**

Bag **50 kg**

Potafoska Magnezowana



PK (CaMgS) 13.5-13 (22-4-22)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total phosphorus pentoxide (P_2O_5), % (m/m)	**13.5**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	10.5
Potassium oxide (K_2O) soluble in water, % (m/m)	**13.0**
Total calcium oxide (CaO), % (m/m)	**22.0**
Calcium oxide (CaO) soluble in water, % (m/m)	**12.0**
Total magnesium oxide (MgO), % (m/m)	**4.0**
Total sulphur trioxide (SO_3), % (m/m)	**22.0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	12.0

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Powder simple superphosphate[1] (CAS no. 8011-76-5),potassium chloride[1] (CAS no. 7447-40-7), magnesite[1].
Where[1] CMC 1: Primary raw materials and mixtures.

Purpose

Granulated **POTAFOSKA MAGNEZOWANA** is a multi-component mineral fertiliser containing nutrients in a form easily absorbed by plants. The fertiliser contains sulphur necessary for protein synthesis. It is recommended for fertilising soils poor in magnesium and for grassland. It is suitable for fertilising all field crops, especially autumn-sown cereals and rapeseed.



Application Rules

This is a typical pre-sowing fertiliser, and it is advisable to mix it with the soil to a depth of 15 cm. When used on grassland, the fertiliser should be applied in early spring at the phosphorus dose intended for the entire growing season ,taking into account the phosphorus content of the soil. After applying granulated **POTAFOSKA MAGNEZOWANA**, it is recommended to top-dress the plants with nitrogen.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the phosphorus content in the soil
Spring cereals	200 – 350
Autumn-sown cereals	300 – 430
Potatoes (on manure)	300 – 480
Autumn-sown rapeseed	300 – 520
Beets (on manure)	410 – 620
Corn (on silos)	370 – 570
Legumes	280 - 430
Grassland	270 - 420

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Detailed information on the product and hazards is contained in the safety data sheet.



Compound fertilisers



Compound fertilisers

BIG BAG **500 kg**

Bag **50 kg**

Tarnogran

PK (CaMgS) 12-23 (18-4-14)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total phosphorus pentoxide (P_2O_5), % (m/m)	**12.0**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	5.0
Potassium oxide (K_2O) soluble in water, % (m/m)	**23.0**
Total calcium oxide (CaO), % (m/m)	**18.0**
Calcium oxide (CaO) soluble in water, % (m/m)	8.0
Total magnesium oxide (MgO), % (m/m)	**4.0**
Magnesium oxide (MgO) soluble in water, % (m/m)	2.0
Total sulphur trioxide (SO_3), % (m/m)	**14.0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	12.0

Granulometry:
Granules. Sieved through a 5 mm mesh sieve: at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve: not more than 10% (m/m).

Components:
Potassium chloride[1] (CAS no. 7447-40-7),), under-acidified superphosphate[1] (own semi-finished product), powder simple superphosphate[1] (CAS no. 8011-76-5), powder magnesium sulphate[1] (CAS no.7487-88-9).
Where[1] CMC 1: Primary raw materials and mixtures.

Purpose

TARNOGRAN is a compound fertiliser intended for fertilising root crops, rapeseed, corn, cereals and grassland, especially on soils deficient in magnesium and potassium. It can also be used in vegetable cultivation and fruit growing. The granulated form and chemical composition of the fertiliser allow plants to benefit from nutrients gradually released from the fertiliser throughout their entire growth period.



Application Rules

TARNOGRAN can be used on all types of soil, including acidic soils. It is recommended to mix it with the soil to a depth of 10-20 cm.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the P and K content in the soil
Sugar beets	400 – 600
Autumn-sown rapeseed	250 – 550
Corn	300 – 800
Autumn-sown cereals	200 – 500
Grassland	200 – 500

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Detailed information on the product and hazards is contained in the safety data sheet.



BIG BAG **500 kg**

Bag **50 kg**





Tarnogran K

NPK(CaMgS) 3.5-10-21 (12-3-20)

fertilizer containing micronutrients (B), (Zn)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total nitrogen (N) in ammonium form, % (m/m)	**3.5**
Total phosphorus pentoxide (P_2O_5), % (m/m)	**10.0**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	5.5
Potassium oxide (K_2O) soluble in water, % (m/m)	**21.0**
Total calcium oxide (CaO), % (m/m)	**12.0**
Calcium oxide (CaO) soluble in water, % (m/m)	6.0
Total magnesium oxide (MgO), % (m/m)	**3.0**
Magnesium oxide (MgO) soluble in water, % (m/m)	2.0
Total sulphur trioxide (SO_3), % (m/m)	**20.0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	19.0
Total boron (B) as sodium salt*, % (m/m)	**0.10**
Total zinc (Zn) as sulphate*, % (m/m)	**0.30**

*The above-mentioned micronutrients contained in the fertiliser are partially soluble in water, in variable amounts.

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Potassium chloride[1] (CAS no. 7447-40-7), under-acidified superphosphate[1] (own semi-finished product), powder simple superphosphate[1] (CAS no. 8011-76-5), ammonium sulphate[2] (CAS no. 7783-20-2), powder magnesium sulphate[1] (CAS no.7487-88-9).
Where[1] CMC 1: Primary raw materials and mixtures.
[2] CMC 11: By-products within the meaning of Directive 2008/98/EC.

Purpose

TARNOGRAN K is a specialised fertiliser containing an optimal set of microelements (N, P, K, Ca, Mg, S) and micronutrients (B, Zn). It is primarily intended for fertilising corn, as well as autumn-sown cereals, beetroot, legumes and fruit trees.

Application Rules

TARNOGRAN K can be used on soils with a pH ranging from neutral to acidic. It is recommended to mix it into the soil to a depth of 10–15 cm.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the P and K content in the soil
Corn	500 – 800
Sugar and fodder beets	550 – 900
Autumn-sown cereals	300 – 500
Fruit trees and bushes	350 – 600

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Use only when justified. Do not exceed the recommended dose.

Detailed information on the product and hazards is contained in the safety data sheet.

For more detailed recommendations, please contact the company **www.zchsiarkopol.pl** or the company's distributor.

Compound fertilisers



Compound fertilisers

BIG BAG **500 kg**

Bag **50 kg**

Tarnogran R z borem



NPK (CaMgS) 4-9-19 (14-3-22)

fertilizer containing micronutrient (B)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrient

Declared nutrients:

Total nitrogen (N) in ammonium form, % (m/m)	**4.0**
Total phosphorus pentoxide (P_2O_5), % (m/m)	**9.0**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	5.0
Potassium oxide (K_2O) soluble in water, % (m/m)	**19.0**
Total calcium oxide (CaO), %(m/m)	**14.0**
Calcium oxide (CaO) soluble in water, % (m/m)	7.0
Total magnesium oxide (MgO), % (m/m)	**3.0**
Magnesium oxide (MgO) soluble in water, % (m/m)	2.0
Total Sulphur Trioxide (SO_3), % (m/m)	**22.0**
Water-soluble Sulphur Trioxide (SO_3), % (m/m)	21.0
Total boron (B) as sodium salt, % (m/m)*	**0.2**

*Boron (B) contained in the fertiliser is partially soluble in water, in variable amounts.

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Potassium chloride[1] (CAS no. 7447-40-7),), under-acidified superphosphate[1] (own semi-finished product), powder simple superphosphate[1] (CAS no. 8011-76-5), ammonium sulphate[2] (CAS no. 7783-20-2), powder magnesium sulphate[1] (CAS no.7487-88-9).
Where[1] CMC 1: Primary raw materials and mixtures.
[2] CMC 11: By-products within the meaning of Directive 2008/98/EC.

Purpose

TARNOGRAN R z borem is a multi-component mineral fertiliser intended for fertilising rapeseed, white mustard, cabbage and legumes, as well as root crops with the addition of the necessary dose of nitrogen, e.g. ammonium nitrate. The chemical composition and forms of the components in the fertiliser ensure good plant nutrition throughout the growing season. It is recommended for a wide range of agricultural crops that require sulphur, calcium and magnesium in addition to phosphorus and potassium.

Application Rules

The fertiliser can be used on soils with a pH ranging from neutral to acidic. It is recommended to mix it into the soil to a depth of 10–15 cm.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the P and K content in the soil
Autumn-sown rapeseed	200 - 700
Field beans, white lupin, yellow lupin and blue (narrow-leafed) lupin	200 - 700

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Use only when justified. Do not exceed the recommended dose.

Detailed information on the product and hazards is contained in the safety data sheet.

For more detailed recommendations, please contact the company **www.zchsiarkopol.pl** or the company's distributor.

BIG BAG **500 kg**

Bag **50 kg**



Tarnogran 21

NPK (CaMgS) 4-10-21 (14-3-20)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total nitrogen (N) in ammonium form, % (m/m)	**4.0**
Total phosphorus pentoxide (P_2O_5), % (m/m)	**10.0**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	5.5
Potassium oxide (K_2O) soluble in water, % (m/m)	**21.0**
Total calcium oxide (CaO), % (m/m)	**14.0**
Calcium oxide (CaO) soluble in water, % (m/m)	7.0
Total magnesium oxide (MgO), % (m/m)	**3.0**
Magnesium oxide (MgO) soluble in water, % (m/m)	2.0
Total sulphur trioxide (SO_3), % (m/m)	**20.0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	19.0

Granulometry:
Granules. Sieved through a 5 mm mesh sieve: at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve: not more than 10% (m/m).

Components:
Potassium chloride[1] (CAS no. 7447-40-7),), under-acidified superphosphate[1] (own semi-finished product), ammonium sulphate[2] (CAS no. 7783-20-2), powder simple superphosphate[1] (CAS no. 8011-76-5), powder magnesium sulphate[1] (CAS no.7487-88-9).
Where[1] CMC 1: Primary raw materials and mixtures.
[2] CMC 11: By-products within the meaning of Directive 2008/98/EC.

Purpose

TARNOGRAN 21 is an universal fertiliser intended primarily for fertilising corn, as well as autumn-sown cereals, beets, legumes and fruit trees.

Application Rules

The fertiliser can be used on soils with a pH ranging from neutral to acidic. It is recommended to mix it into the soil to a depth of 10–15 cm.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the P and K content in the soil
Corn	500 – 800
Sugar beets and fodder beets	550 – 900
Autumn-sown cereals	300 – 500
Fruit trees and bushes	350 – 600
Potatoes	400 – 600
Spring cereals	350-550
Rapeseed	450-650

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Detailed information on the product and hazards is contained in the safety data sheet.

For more detailed recommendations, please contact the company **www.zchsiarkopol.pl** or the company's distributor.





Compound fertilisers



Compound fertilisers

BIG BAG **500 kg**

Bag **50 kg**



Tarnogran 25

NPK (CaMgS) 5-10-25 (10-2-18)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total nitrogen (N) in ammonium form, % (m/m)	**5.0**
Total phosphorus pentoxide (P_2O_5), % (m/m)	**10.0**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	6.0
Potassium oxide (K_2O) soluble in water, % (m/m)	**25.0**
Total calcium oxide (CaO), % (m/m)	**10.0**
Calcium oxide (CaO) soluble in water, % (m/m)	5.0
Total magnesium oxide (MgO), % (m/m)	**2.0**
Magnesium oxide (MgO) soluble in water, % (m/m)	1.0
Total sulphur trioxide (SO_3), % (m/m)	**18.0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	17.0

Granulometry:
Granules. Sieved through a 5 mm mesh sieve: at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve: not more than 10% (m/m).

Components:
Potassium chloride[1] (CAS no. 7447-40-7),), under-acidified superphosphate[1] (own semi-finished product), ammonium sulphate[2] (CAS no. 7783-20-2), powder simple superphosphate[1] (CAS no. 8011-76-5), diammonium phosphate[1] (CAS no.7783-28-0) and/or monoammonium phosphate[1] (CAS no.7722-76-1), powder magnesium sulphate[1] (CAS no.7487-88-9).
Where[1] CMC 1: Primary raw materials and mixtures.
[2] CMC 11: By-products within the meaning of Directive 2008/98/EC.

Purpose

TARNOGRAN 25 is a universal granulated multi-component inorganic fertiliser intended for fertilising: beets, corn, rapeseed, cereals, potatoes, grassland and all other plants with high potassium demand. It contains nutrients in forms easily absorbed by plants. The granulated form of the fertiliser facilitates even spreading and causes the systematic release of nutrients.

Application Rules

TARNOGRAN 25 should be applied before sowing, both in spring and autumn. After spreading, it should be mixed into the soil to a depth of 10–15 cm. It can also be applied in rows during crop sowing, at a distance of 10 cm from the plant. In the case of row application or after prior application of natural fertiliser (manure, slurry manure, liquid manure), the fertiliser dose should be reduced by 30%.

Fertiliser doses

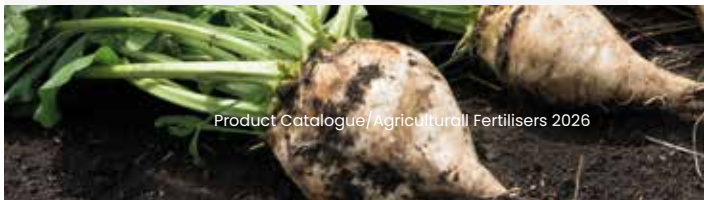
Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the P and K content in the soil
Beets	300 – 800
Corn	300 – 800
Autumn-sown rapeseed	300 – 500
Autumn-sown nd spring cereals	250 – 450
Potatoes	250 – 750
Grassland	200 – 500
Legumes	250 – 500

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Detailed information on the product and hazards is contained in the safety data sheet.

For more detailed recommendations, please contact the company **www.zchsiarkopol.pl** or the company's distributor.



BIG BAG **500 kg**

Bag **50 kg**

Tarnogran Pro



NPK (CaS) 5-15-28 (9-13)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser

Declared nutrients:

Total nitrogen (N) in ammonium form, % (m/m)	**5.0**
Total phosphorus pentoxide (P_2O_5),% (m/m)	**15.0**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	13.0
Phosphorus pentoxide (P_2O_5) soluble in neutral ammonium citrate solution, % (m/m)	14.0
Potassium oxide (K_2O) soluble in water, % (m/m)	**28.0**
Total calcium oxide (CaO), % (m/m)	**9.0**
Calcium oxide (CaO) soluble in water, % (m/m)	7.0
Total sulphur trioxide (SO_3), % (m/m)	**13.0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	12.0

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

(*) The fertiliser also contains urea nitrogen in an undeclared amount.

Components:
Potassium chloride[1] (CAS no. 7447-40-7), powder simple superphosphate[1] (CAS no. 8011-76-5), monoammonium phosphate[1] (CAS no.7722-76-1).
Where[1] CMC 1: Primary raw materials and mixtures.
[2] CMC 11: By-products .

Purpose

TARNOGRAN PRO is a universal pre-sowing fertiliser that enriches the soil with nitrogen, phosphorus, potassium, calcium and sulphur. It is mainly designed for corn, beets, potatoes and fruit trees. It is also recommended for spring cereals, taking into account the higher dose of nitrogen and phosphorus during spring fertilisation.

Application Rules

TARNOGRAN PRO should be applied before sowing, both in spring and autumn. After sowing, mix it into the soil to a depth of 10–15 cm. It can also be applied in rows during planting, at a distance of 10 cm from the plant. In the case of row application or after prior application of manure, the fertiliser dose should be reduced by 30%.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the P and K content in the soil
Beets	300 - 800
Corn	300 - 800
Autumn-sown rapeseed	300 - 500
Autumn-sown and spring cereals	250 - 450
Potatoes	250 - 750
Grassland	200 - 500
Legumes	250 - 500

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.





Compound fertilisers



Compound fertilisers

BIG BAG **500 kg**

Bag **50 kg**

Superfosamon Pro

NP (CaS) 7-32 (13-22)

PFC 1(C)(I)(a)(ii):
Solid inorganic multi-component macronutrient fertiliser

Declared macronutrients:

Total nitrogen (N) in ammonium form, % (m/m)	**7.0**
Total phosphorus pentoxide (P_2O_5), % (m/m)	**32.0**
Water-soluble Sulphur Trioxide (P_2O_5), % (m/m)	30.0
Phosphorus pentoxide (P_2O_5) soluble in an inert ammonium citrate solution, % (m/m)	31.0
Total calcium oxide (CaO), % (m/m)	**13.0**
Calcium oxide (CaO) soluble in water, % (m/m)	12.0
Total Sulphur Trioxide (SO_3), % (m/m)	**22.0**
Water-soluble Sulphur Trioxide (SO_3), % (m/m)	21.0

Granulometry:
Granules Passing a 5 mm sieve: at least 95% (m/m).
Granules Passing a 2 mm sieve: not more than 10% (m/m).

Ingredients:
Powdered triple superphosphate (TSP) [1] (CAS No. 65996-95-4), ammonium sulfate [2] (CAS No. 7783-20-2),
Where [1] is CMC 1: Primary raw materials and mixtures, [2] is CMC 11: By-products.

Intended Use

SUPERFOSAMON PRO is a universal pre-sowing fertiliser that enriches the soil with nitrogen, phosphorus, calcium, and sulfur. It is primarily intended for fertilizing cereals, rapeseed, legumes, and grassland, particularly in soils rich in potassium. The fertiliser contains nutrients in water-soluble forms that are easily assimilated by plants.

Zasady Stosowania

SUPERFOSAMON PRO can be applied in spring or autumn - pre-sowing or before planting seedlings for spring field crops (harrowing, rototilling) so that it is mixed with the soil to a depth of 15 cm. Depending on the cultivated crop, it is necessary to apply an appropriate dose of potassium.



SUPERFOSAMON PRO can be blended before spreading with granular forms of potassium sulfate, potassium salt, and magnesium sulfate. The fertiliser can also be applied as a top dressing on meadows and pastures, ideally before expected rainfall. In the case of band placement, the fertiliser rate should be reduced by 30%.

Fertiliser Rates

Recommended fertiliser rates in kg/ha

Cultivated crops	**Fertiliser rate depending on soil phosphorus levels**		
	high	medium	low
Spring cereals	250	350	450
Rape	300	400	500
Malting barley	250	350	450
Sweet maize	400	500	600
Pole beans and bush beans	250	350	450
Peas	200	300	400
Asparagus	150	250	350
Grassland	300	400	500

After applying farmyard manure, the fertiliser rate can be reduced by 30%.
The product rates provided are recommendations. We recommend that farmers consult with their advisors to tailor the recommendations to their specific situation and avoid over-fertilization. For more detailed recommendations, please contact us at **www.zchsiarkopol.pl** or an authorized distributor.

For detailed information on the product and hazards, please refer to the safety data sheet.

BIG BAG **500 kg**

Bag **50 kg**



Superfosamon 10

NP 10-20.5

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser

Declared nutrients:

Total nitrogen (N) in ammonium form, % (m/m)	**10.0**
Total phosphorus pentoxide (P_2O_5), % (m/m)	**20.5**
Phosphorus pentoxide (P_2O_5) soluble in water, % (m/m)	18.5
Phosphorus pentoxide (P_2O_5) soluble in neutral ammonium citrate solution, % (m/m)	20.0

The fertiliser also contains undeclared macronutrients:
- **calcium** calculated as total calcium oxide (CaO) (approx. 14% (m/m)) and water-soluble calcium oxide (CaO) (approx. 8% (m/m))
- **sulphur** calculated as total sulphur trioxide (SO_3) (approx. 32% (m/m)) and water-soluble sulphur trioxide (SO_3) (approx. 24% (m/m))

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Powder simple superphosphate[1] (CAS no. 8011-76-5), ammonium sulphate[2] (CAS no. 7783-20-2), diammonium phosphate[1] (7783-28-0CAS no.), monoammonium phosphate[1] (CAS no. 7722-76-1)
Where[1] CMC 1: Primary raw materials and mixtures. [2] CMC 11: By-products.

Purpose

SUPERFOSAMON 10 is a universal mineral granulated fertiliser designed for fertilising cereals, rapeseed, legumes, grassland, vegetables, fruit trees and shrubs, especially on soils rich in potassium. The fertiliser contains nutrients in water-soluble forms that are easily absorbed by plants.

Application Rules

SUPERFOSAMON 10 can be used in spring or autumn – before sowing or planting seedlings for spring field crops (harrowing, tilling) so that it is mixed with the soil to a depth of 15 cm. Depending on the crop, it is necessary to apply the appropriate dose of potassium.

SUPERFOSAMON 10 can be mixed before sowing with granulated forms of: potassium sulphate, potassium salt and magnesium sulphate. The fertiliser can also be applied topically to meadows and pastures, preferably before expected rainfall. For row application, reduce the fertiliser dose by 30%.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	**Dosage** depending on the P and K content in the soil		
	high	medium	low
Spring cereals	250	350	450
Rapeseed	300	400	500
Brewing barley	250	350	450
Sweet corn	400	500	600
Pole beans and dwarf beans	250	350	450
Pea	200	300	400
Asparagus	150	250	350
Grassland	300	400	500

After fertilising with manure, the fertiliser dose can be reduced by 30%. The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Detailed information on the product and hazards is contained in the safety data sheet.



Compound fertilisers



Fertilisers
for every crop!

Specialist Fertilisers

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BIG BAG **500 kg**

Bag **50 kg**

WAP MAG z mikroelementami



CaMgS (28-16-8)

nfertilizer containing micronutrients (B, Cu, Zn)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total calcium oxide (CaO), % (m/m)	**28.0**
Total magnesium oxide (MgO), % (m/m)	**16.0**
Total sulphur trioxide (SO_3), %(m/m)	**8.0**
Sulphur trioxide (SO_3) soluble in water, %(m/m)	7.0
Total boron (B) as sodium salt, % (m/m)*	**0.04**
Total copper (Cu) as sulphate, % (m/m)*	**0.10**
Total zinc (Zn) as sulphate, % (m/m)*	**0.10**

*The above-mentioned micronutrients contained in the fertiliser are partially soluble in water, in variable amounts.

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Calcium-magnesium powder mixture [1]
Where[1] CMC 1: Primary raw materials and mixtures.

Purpose

WAP MAG z mikroelementami is intended for use on mineral and organic soils with a very acidic, acidic and neutral pH – in all agricultural crops, on arable land and permanent grassland, in the cultivation of vegetables and fruit plants. Due to its high magnesium content, it should be used primarily on soils with low and very low magnesium content. It is also recommended for soils with micronutrient deficiencies, especially boron, copper and zinc.

WAP MAG z mikroelementami is produced using a special technological process based on a mixture of finely ground dolomite with microelements, which is then granulated. Grinding dolomite causes the 'surface area' of this mineral to expand, which facilitates and accelerates the uptake of nutrients by plants. The micronutrients contained in the fertiliser are selected in proportions adapted to the needs of most plants and in doses that allow mixing with other fertilisers for specific plant needs. The granulated form of the fertiliser allows for even spreading.

Time of Fertilizer Application

For autumn-sown crops on arable land, fertilizer should be applied before conventional sowing. For spring crops for sowing or planting, it should be applied before winter ploughing, or possibly also before spring ploughing. In other cases, it is recommended to mix the fertilizer with the soil to a depth of up to 15 cm. For grasslands, fertilizer should be applied in accordance with the principles of fertilization for these lands in spring, before or at the beginning of vegetation and after mowing or grazing. The fertilizer should be spread evenly over the entire surface of the field, so as to prevent fertilization of fields and crops not intended for this purpose.

Fertilizer Doses

Depending on the crop grown and the abundance of absorbable magnesium in the soil, fertilizer is applied at doses ranging from 20 to 50 kg of MgO/ha, which, calculated on a mass basis, equivalent to 130-350 kg of fertilizer per hectare.

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Use only when justified. Do not exceed the recommended dose.

Detailed information on the product and hazards is contained in the safety data sheet.





BIG BAG **500 kg**

Bag **50 kg**

WAP MAG



CaMgS 28-16-8

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total calcium oxide (CaO), % (m/m)	**28.0**
Total magnesium oxide (MgO), % (m/m)	**16.0**
Total sulphur trioxide (SO_3), % (m/m)	**8.0**
Sulphur trioxide (SO_3) soluble in water, % (m/m)	7.0

Purpose

WAP MAG is intended for use on mineral and organic soils with a very acidic, acidic and neutral pH – in all agricultural crops, on arable land and permanent grassland. Due to its high magnesium content, it should be used primarily on soils with low and very low magnesium content.

Application Rules

The fertilizer should be mixed with the soil during spring or autumn cultivation. It can also be applied topically, preferably before expected rainfall. For autumn-sown crops on arable land, the fertilizer should be applied before seed ploughing. For spring crops sown or planted before winter ploughing, it can also be applied before spring ploughing.

In other cases, it is recommended to mix the fertilizer with the soil to a depth of up to 15 cm. For grasslands, fertilizer should be applied in accordance with the principles of fertilization for these lands in spring, before or at the beginning of vegetation and after mowing or grazing. The fertilizer should be spread evenly over the entire surface of the field, so as to prevent fertilization of fields and crops not intended for this purpose. Do not exceed the recommended doses.

Recommended fertiliser doses in kg/ha

Depending on the crop grown and the soil's absorbable magnesium content, the fertilizer is applied at doses ranging from 20 to 60 kg of MgO/ha, which, based on the fertilizer mass, corresponds to 130-480 kg of fertilizer per hectare. The fertilizer can be used alone or as a component of a mixture with other granulated fertilizers.

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Detailed information on the product and hazards is contained in the safety data sheet.



BIG BAG **500 kg**

Bag **25 kg**



Wigor S

(S) (90)

PFC 1(C)(I)(a)(i):
Single solid inorganic macronutrient fertiliser

Declared nutrient:

Total sulphur (S) (elemental)	**90.0**

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 5% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 95% (m/m).

Components:
Sulphur[1] (CAS no. 7704-34-9), bentonite[1] (CAS no. 1302-78-9)
Where[1] CMC 1: Primary raw materials and mixtures.

Purpose

WIGOR S is intended for fertilizing sulphur-loving plants such as: rapeseed, peas, legumes, cruciferous vegetables, sugar beet and beetroot, as well as cereals: wheat, barley and corn on soils showing sulphur deficiency.

Application Rules

The fertilizer can be used alone or as an ingredient of a mixture with other granulated fertilizers.

Application methods

For autumn-sown crops on arable land, fertilizer should be used for conventional ploughing, and in the case of spring plants sowing or planting for winter ploughing, or possibly also for spring ploughing. In other cases, it is recommended to mix the fertilizer with soil to a depth of up to 15 cm. In legume crops the fertilizer should be applied in accordance with the rules for fertilizing these crops in spring, before or at the beginning of the vegetation. The fertilizer should be spread evenly over the entire field surface in a way that excludes fertilization of fields and crops not intended for it. Do not exceed the recommended doses.

Fertiliser doses

Recommended fertiliser doses in kg/ha

Cultivated plants	Dosage
Autumn-sown rapeseed	20 - 40
Radish	35 - 40
Cruciferous vegetables	10 - 40
Bulbous vegetables	10 - 15
Wheat	15 - 20
Corn	15 - 20
Carrot	10 - 15
Barley	10 - 15
Pea	15 - 20
Beetroot	10 - 30
Tomatoes	10 - 30
Medicago (burclover)	15 - 20
Beans	5 - 10

Detailed information on the product and hazards is contained in the safety data sheet.





Bag **25 kg**

Bag **10 kg**



Dolomite

Declared macronutrients:

Total magnesium oxide (MgO) + total calcium oxide (CaO)	**min. 45.0**
Including: total magnesium oxide (MgO)	min. 15.0

Purpose

DOLOMIT (calcium-magnesium carbonate) is intended for use with all soil types, particularly those with a highly acidic, acidic and slightly acidic pH, in all agricultural crops on arable land and permanent grassland. Due to the significant magnesium content, it should be primarily used on soils low and very low in magnesium. The fertiliser may be applied separately or as a constituent of a mixture with other granulated fertilisers. **DOLOMIT** has an de-acidifying effect and the presence of magnesium, which is essential for plants, increases yields and improves plant health.

Application Rules

It is recommended to mix Dolomite into the soil, at a depth of 15 – 20 cm. For autumn-sown plants on arable lands, Dolomite should be applied with conventional ploughing. It may be applied for spring plants or when planting after spring or winter ploughing. It is acceptable to apply Dolomite to grassland, by spreading on the surface of the field, but its effect will then be slowed down and such treatment should be carried out in autumn, after swathing or grazing.

Dosage rate

Depending on the crop grown and the magnesium content of the soil, the fertiliser is applied in the following quantities:

Soil type	Application rate (t/ha)
Very light soil	1 - 2
Light soil	2 - 3
Medium soil	3 - 4
Heavy soil	4 - 5

Once mixed with the soil, the nutrients contained in the fertiliser will be released gradually during the growing season, without the risk of rapid leaching beyond the reach of the root system.

Detailed information on the product and hazards is contained in the safety data sheet.



BIG BAG **500 kg**

Bag **25 kg**

Granulowany Siarczan Magnezu

(MgS) (22-36)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser

Declared macronutrients:

Total magnesium oxide (MgO), % (m/m)	**22.0**
Magnesium oxide (MgO) soluble in water, % (m/m)	18.0
Total sulphur trioxide (SO_3), soluble in water, % (m/m)	**36.0**

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Powder magnesium sulphate[1] (CAS no. 7487-88-9).
Where[1] CMC 1: Primary raw materials and mixtures.

Purpose

GRANULOWANY SIARCZAN MAGNEZU is intended for regular fertilization of all crops. Due to the content of easily-absorbable forms of magnesium and sulphur it can also be used for top dressing in cases of identified deficiencies of magnesium and sulphur.

Application Rules

The fertilizer should be mixed with the soil during spring or autumn cultivation, it can also be applied on the surface, preferably before expected rainfall.

Fertiliser doses

Depending on the crop grown and abundance of absorbable magnesium in the soil, the fertilizer is applied in doses 80 - 200 kg/ha.



Recommended fertiliser doses in kg/ha

Cultivated plants	Dosage
Rapeseed	180 – 200
Corn	160 – 190
Beets	170 – 190
Potatoes	130 – 170
Legumes	150 – 180
Spring cereals	100 – 130
Grassland	80 – 100
Fruit trees and shrubs	100 – 120
Cabbage, Brussel sprouts, red cabbage	180 – 200
Chinese cabbage, cauliflower, tomatoes, pea, broccoli	170 – 190
Leek, betroot	170 – 190
Green beans, carrot	160 – 180
Cucumber	150 – 180
Celery and celeriac	150 – 170
Kohlrabi, chicory, asparagus, radish, onion, parsley	140 – 160

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Use only when justified. Do not exceed the recommended dose.

Detailed information on the product and hazards is contained in the safety data sheet.





Specialist Fertilisers

Granulowany Siarczan Magnezu z Mikroelementami

BIG BAG **500 kg**

Bag **25 kg**



(MgS) (23-32)

fertilizer containing micronutrients (B), (Zn)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser with micronutrients

Declared nutrients:

Total magnesium oxide (MgO), % (m/m)	**23.0**
Magnesium oxide (MgO) soluble in water, % (m/m)	16.0
Sulphur trioxide (SO_3)soluble in water, % (m/m)	**32.0**
Total boron (B) as sodium salt, % (m/m)*	**0.10**
Total zinc (Zn) as sulphate, % (m/m)*	**0.02**

*The above-mentioned micronutrients contained in the fertiliser are partially soluble in water, in variable amounts.

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Powder magnesium sulphate[1] (CAS no. 7487-88-9), magnesite[1].
Where[1] CMC 1: Primary raw materials and mixtures.

Purpose

GRANULOWANY SIARCZAN MAGNEZU z mikroelementami is intended for fertilization of all crops. Due to the content of easily-absorbable forms of magnesium and sulphur it can also be used for top dressing.

Application Rules

The fertilizer should be mixed with the soil during spring or autumn cultivation, it can also be applied on the surface, preferably before expected rainfall.

Fertilizer Doses

Depending on the crop being grown and the magnesium content of the soil, natural fertilizer is applied at doses of 80–200 kg/ha.
Recommended fertiliser doses in kg/ha

Cultivated plants	Dosage
Rapeseed	180 – 200
Corn	160 – 190
Beets	170 – 190
Potatoes	130 – 170
Legumes	150 – 180
Spring cereals	100 – 130
Grassland	80 – 100
Fruit trees and shrubs	100 – 120
Cabbage, Brussel sprouts, red cabbage	180 – 200
Chinese cabbage, cauliflower, tomatoes, pea, broccoli	170 – 190
Leek, betroot	170 – 190
Green beans, carrot	160 – 180
Cucumber	150 – 180
Celery and celeriac	150 – 170
Kohlrabi, chicory, asparagus, radish, onion, parsley	140 – 160

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

Use only when justified. Do not exceed the recommended dose.

Detailed information on the product and hazards is contained in the safety data sheet.

Granulowany Siarczan Magnezu S

BIG BAG **500 kg**

Bag **25 kg**



(MgS) (22-40)

PFC 1(C)(I)(a)(ii):
Compound solid inorganic macronutrient fertiliser

Declared macronutrients:

Total magnesium oxide (MgO), % (m/m)	**22.0**
Magnesium oxide (MgO) soluble in water, % (m/m)	18.0
Total sulphur trioxide (SO_3), soluble in water, % (m/m)	**40.0**

Granulometry:
Granules. Sieved through a 5 mm mesh sieve:
at least 95% (m/m).
Granules. Sieved through a 2 mm mesh sieve:
not more than 10% (m/m).

Components:
Powder magnesium sulphate[1] (CAS no. 7487-88-9).
Where[1] CMC 1: Primary raw materials and mixtures.

Purpose

GRANULOWANY SIARCZAN MAGNEZU S is intended for regular fertilization of all crops. Due to the content of easily-absorbable forms of magnesium and sulphur it can also be used for top dressing in cases of identified deficiencies of magnesium and sulphur.

Application Rules

The fertilizer should be mixed with the soil during spring or autumn cultivation, it can also be applied on the surface, preferably before expected rainfall.

Fertiliser doses

Depending on the crop grown and abundance of absorbable magnesium in the soil, the fertilizer is applied in doses 80 - 200 kg/ha.

Recommended fertiliser doses in kg/ha

Cultivated plants	Dosage
Rapeseed	180 – 200
Corn	160 – 190
Beets	170 – 190
Potatoes	130 – 170
Legumes	150 – 180
Spring cereals	100 – 130
Grassland	80 – 100
Fruit trees and shrubs	100 – 120
Cabbage, Brussel sprouts, red cabbage	180 – 200
Chinese cabbage, cauliflower, tomatoes, pea, broccoli	170 – 190
Leek, beetroot	170 – 190
Green beans, carrot	160 – 180
Cucumber	150 – 180
Celery and celeriac	150 – 170
Kohlrabi, chicory, asparagus, radish, onion, parsley	140 – 160

The product doses given are recommendations. We recommend that farmers exchange information with their advisers in order to adapt the recommendations to their specific situation and avoid over-fertilisation.

For more detailed recommendations, please contact the company **www.zchsiarkopol.pl** or the company's distributor.





Container **5 l**

Container **20 l**

Container **600 l**

Container **1000 l**

Pro-Siarka S 800 SC



(S) (55)

PFC 1(C)(I)(b)(i):
Single liquid inorganic macronutrient fertiliser

Declared nutrient:

Total sulphur (S) (elemental)	**55.0**

Components:
Sulphur[1] (CAS no. 7704-34-9).
Where[1] CMC 1: Primary raw materials and mixtures.

Purpose

Pro-Siarka S 800 SC fertilizer was produced from finely fragmented elemental sulphur, which enables its highly effective use by plants, even above 75%. Pro-Siarka S 800 SC is intended mainly for sulphur- deficient soils. On arable land fertilizer is recommended for sulphur-loving plants such as: rapeseed, legumes and sugar beet. Beneficial crop-producing effects is also obtained after applying fertilizer to cereals and corn. The fertilizer can also be used on permanent grassland as well as orchards and all vegetable crops.

Application Rules

Preparation of working solution and method of applying fertilizer. The working solution should be prepared just before the fertilization treatment.

Before preparing the working solution shake contents of the container and carefully measure the required amount of fertilizer. Dissolve the measured dose of fertilizer in water in the sprayer tank and mix. To do this, pour the fertilizer into a sprayer tank partially filled with water. Then top up the sprayer tank with water to the required concentration. Rinse the emptied container three times with water, and pour the washes into the sprayer tank with the working solution. The fertilizer is applied in medium or fine droplets form with sprayer used in plant protection. Spraying should be performed on cloudy days in the evening or morning. The fertilizer should be applied evenly over the entire surface in a way that excludes fertilization of fields and crops not intended for this purpose. When used at the recommended concentration, the fertilizer does not cause corrosion of the working elements of the sprayer.

Additionally, the following rules must be followed:

1. Do not exceed the recommended working solution concentration.
2. Do not spray plants in strong sunlight and high temperatures; fertilizer is best used in the morning (after the dew has subsided) or late afternoon.
3. It is not recommended to apply fertilizer just before or during rainfall.
4. Do not fertilize plants physically or mechanically damaged or invaded by diseases and pests.
5. It is not recommended to spray plants during flowering.





Fertiliser doses

Dosage and application time of the fertilizer.
Depending on the plant species, the fertilizer is used in the following doses:

Cultivated plant	Dosage l/ha	Recommended amount of water l/ha	Fertiliser application time or plant development stage	plant development stage according to BBCH scale
Autumn-sown rapeseed	5	300 - 500	In the autumn after plant sprouting	10 - 29
	8	300 - 500	In early spring	30 - 50
	6	300 - 500	Before flowering	50 - 57
Barley, wheat, rye	5	300 - 500	After sprouting until beginning of tillering	10 - 19
Brewing barley, triticale	5	300 - 500	The end of tillering, shooting	23 - 30
Oat	5	300 - 500	By the end of the heading stage	32 - 59
Corn for grain and silage	10	700 - 1000	Fully developed 2-6 leaves	19 - 24
Potatoes	5	300 - 500	Several times, beginning from the leaf development stage to the end of flowering	21 - 70
Sugar beet	5	300 - 500	During leaf development	20 - 26
	5	300 - 500	3 -4 weeks after closing rows	31 - 33
Field pea, pea	5	300 - 500	When the plant has 1 to 4 fully developed leaves	11 - 19
Lupin, sunflower	5	300 - 500	Before flowering	30 - 59
Grassland	20	3000 - 4000	Before the start of vegetation	-
Hops	5	800 - 1000	After guiding hops onto wires	-
	5	1500 - 2000	After hops reaches mesh netting	-
	5	2500 - 3000	During flowering and later	-

Detailed information on the product and hazards is contained in the safety data sheet.





Pro Humus

PFC 1(A)(II): liquid organic fertiliser

Nutrients expressed in % (m/m):

Total nitrogen (N) content 3.0%
Nitrogen $N_{(org)}$ of plant origin 3.0%
Potassium oxide (K_2O) 7.1%
Total phosphorus pentoxide (P_2O_5) content 1.1%
Organic carbon (C_{org}) content 18.1%
Dry matter content 18.1% C_{org}/N_{tot} 6.03
Humin acid content 6.9%
Fulvic acid content 5.3%
Humic acid content 12.2%

Ingredients:
Lowland sapropel peat, CMC 1: Primary raw materials and mixtures.



Pro Humus

is a natural organic fertiliser containing sodium and potassium salts. Used at a dose of 1 litre per hectare, it contributes to an increase in yield of approximately 8–9%. It increases seed weight (by 5–6%), plant height (by 6–8%) and the number of grains (by 3–4%). It is also perfect for garden crops.

The product strengthens plant resistance to diseases and improves the absorption of essential minerals, which results in high yields and better product quality.

Pro Humus

It is a rich source of humic and fulvic acids, which are powerful catalysts for biological processes in the soil. The organic matter it contains is an excellent nutrient and energy source for soil microorganisms , supporting the development of biological life in the root environment.

Cultivation	Seed/seedling treatment	Method of application
Cereals (wheat, rye, oats, millet) corn	Working solution – 10 litres per 1 tonne of seed. Preparation of the working solution –0.5 litres of fertiliser per 9.5 litres of water.	Spray twice during the growing season. Spray once during the tillering phase. Spray a second time during the flowering phase. The working solution usage is 250-300 l/ha per treatment. Preparation of the working solution: dilute 1 litre of fertiliser in 250 300 litres of water per 1 ha.
Potatoes, radish, carrots	Working solution – 40 litres per 1 tonne of seed. Preparation of the working solution – 20 grams of solution in 10 litres of water.	Two applications during the growing season. First spraying in the 5-7 leaf stage. Second spraying in the budding stage. The working solution usage is 250-300 l/ha per treatment. Preparation of the working solution – dilute 1 litre of fertiliser in 250-300 litres of water per 1 ha.
Vegetables (tomatoes, cucumbers, courgettes)	The seed treatment time is 10 hours. Working solution: 1 litre per 1 kg of seed. Preparation of the working solution: 20 grams of solution per 10 litres of water.	Four sprays. The first spray when 2-4 leaves appear. The second spray during the budding phase. The third spray at the beginning of flowering, and the fourth spray during fruiting. The working fluid usage is 250-300 l/ha. Preparation of the working solution – dilute 1 litre of fertiliser in 250-300 litres of water per 1 ha.
Fruit trees (apple, pear, cherry, plum)	Soaking the roots of seedlings – 24 hours. Preparation of the working solution 200 grams per 100 litre of water.	Spraying of vegetative plants, stage 2-3 true leaves, subsequent applications at intervals of 10-15 days with a 0.5-0.63% solution. The flow rate of the working fluid is 400 l/ha.

Ogród 2001 Humus Pro PK



PFC 1(A)(II): liquid organic fertiliser

Declared nutrients:

Total phosphorus pentoxide (P_2O_5), % (m/m)	**1,5**
Total potassium oxide (K_2O), % (m/m)	**8,9**
Organic carbon (C_{org}), % (m/m)	**6,2**
Dry matter, % (m/m)	**28,7**
C_{org}/N_{tot}, % (m/m)	**6,9**
Additional information:	
Total nitrogen (N), % (m/m)	**0,9**
Humus acids in dry matter, % (m/m)	**19,4**
Humic acids in dry matter, % (m/m)	**17,1**
Fulvic acids in dry matter, % (m/m)	**2,3**

Ingredients:
Lowland sapropelic peat, CMC 1: Primary raw materials and mixtures.

Przeznaczenie

Ogród 2001 Humus Pro PK is a liquid organic fertiliser designed for foliar application, soil application, and for treating seeds and seedlings. It combines readily available phosphorus and potassium with natural organic matter derived from lowland sapropel peat, rich in humic and fulvic acids. The preparation supports the proper development of the root system, improves plant condition, and increases the efficiency of nutrient uptake from the soil. Thanks to its liquid formulation, it is easy to prepare and can be used in a wide range of crops, including cereals, maize, vegetables, potatoes, and fruit trees.



Application Guidelines

Cultivation	Seed/seedling treatment	Application Method
Cereals (wheat, rye, oats, millet), maize	Spray liquid - 1**0 litres per 1 tonne of seeds** • Preparation of working fluid: **0.3 litres of fertiliser + 9.7 litres of water**	**Spray twice:** First spray - in spring once growth resumes Second spray - at the tillering stage Spray liquid application rate: **200-250 l/ha** Preparation of the solution: **0.5-1 litre of fertiliser in 200-250 litres of water/ha**
Potato, radish, carrot	Spray liquid - 40 litres per 1 tonne of seeds • Preparation of working fluid: **20-30 ml of fertiliser per 10 litres of water**	**Spray twice:** First spray at the 5-7 leaf stage. Second spray at the budding stage Spray liquid application rate: **250-300 l/ha** Preparation of the solution: **0.7-1.2 litre of fertiliser in 250-300 litres of water/ha**
Fruit trees (apple tree, pear tree, cherry tree, plum tree)	Spray liquid **1 litre per 1 kg of seeds.** • Preparation of spray liquid: **20-30 ml of fertiliser per 10 litres of water** • Seed treatment time: **8-10 hours**	**Spray three times:** First spray at the 2-4 leaf stage. Second spray at the budding stage Third spray - during fruiting Spray liquid application rate: **250-300 l/ha** Preparation of the solution: **0.5-1 litres of fertiliser in 250-300 litres of water/ha**
Drzewa owocowe (jabłoń, grusza, wiśnia, śliwa)	Preparation of spray liquid: **200 ml of fertiliser per 100 litres of water** Soak seedling roots for **24 hours.**	Spray plants with a solution **0.3-0.5%** First application at the leaf development stage, subsequent applications every 10-14 days. The application rate of the spray liquid is approximately **400 l/ha**

Soil application (regardless of crop).
Preparation of the spray solution - dilute 3-4 litre of fertiliser in 200-300 litres of water per 1 ha. Apply twice per season: in spring and autumn.

For more detailed recommendations, please contact us at **www.zchsiarkopol.pl** or an authorized distributor





Orchard and garden fertilisers

Fertiliser for orchard

Ogród 2001 uniwersalny
Dolomit
Ogród 2001 pod truskawki i maliny
WAP MAG z mikroelementami
Bontar
Bontar Max

Garden Fertilisers

Superfosfat prosty
Siarczan potasu granulowany
Sól potasowa
Mocznik granulowany
Ogród 2001 pod pomidory i paprykę
Ogród 2001 do winorośli
Ogród 2001 przeciwko brązowieniu igieł
Ogród 2001 pod iglaki
Ogród 2001 do tui i innych iglaków
Ogród 2001 trawnik max
Ogród 2001 do bukszpanów i żywopłotów ozdobnych
Ogród 2001 do trawników
Ogród 2001 antymech
Ogród 2001 do pelargonii, surfinii
i innych kwiatów balkonowych
Ogród 2001 do kwiatów ogrodowych
Ogród 2001 do magnolii
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